6CS6

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PENTAGRID AMPLIFIER

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts	
Current	0.3	amp	

Direct Interelectrode Capacitances (Approx.):°

Grid No.1 to plate	0.07 max.	μμf	←
Grid No.3 to plate	0.36 max.	μμf	
Grid No.1 to grid No.3	0.22 max.	μμf	←
Grid No.1 to cathode & grid No.5, grid No.4 & grid No.2, grid No.3, and heater	5.5	μμf	
Grid No.3 to cathode & grid No.5, grid No.4 & grid No.2, grid No.1, and heater	7	μμf	
Plate to cathode & grid No.5, grid No.4 & grid No.2, grid No.3, grid No.1, and heater	7.5	μμf	

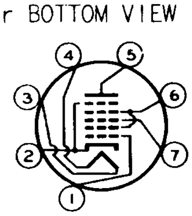
Characteristics, Class A_1 Amplifier:

Plate Voltage	100	100	volts	
Grid-No.2 & Grid-No.4 Voltage	30	30	volts	
Grid-No.3 Voltage	-1	0	volt	
Grid-No.1 Voltage	0	-1	volt	
Plate Resistance (Approx.)	0.7	1	megohm	
Grid-No.3-to-Plate Transconductance	1500	-	μmhos	←
Grid-No.1-to-Plate Transconductance	-	1100	μmhos	←
Plate Current	0.8	1	ma	←
Grid-No.2 & Grid-No.4 Current	5.5	1.3	ma	←
Grid-No.3 Voltage (Approx.) for plate current of 50 μamp	-2.2	-	volts	
Grid-No.1 Voltage (Approx.) for plate current of 50 μamp	-	-2.5	volts	

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Length	1-7/8"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/2" ± 3/32"
Maximum Diameter	3/4"
Dimensional Outline	*See General Section*
Bulb	T-5-1/2
Base	Small-Button Miniature 7-Pin (JETEC No.E7-1)
Basing Designation for BOTTOM VIEW	7CH

Pin 1 - Grid No.1
Pin 2 - Cathode, Grid No.5
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate
Pin 6 - Grid No.2, Grid No.4
Pin 7 - Grid No.3

° Without external shield.

← Indicates a change.

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PENTAGRID AMPLIFIER

GATED AMPLIFIER SERVICE

Maximum Ratings, *Design-Center Values:*

PLATE VOLTAGE	300	max.	volts
GRID-No.2 & GRID-No.4 SUPPLY VOLTAGE	300	max.	volts
GRID-No.2 & GRID-No.4 VOLTAGE	*See Grid-No.2 Input Rating Chart at front of Receiving Tube Section*		
PLATE DISSIPATION	1	max.	watt
GRID-No.2 & GRID-No.4 INPUT:			
For grid-No.2 & grid-No.4 voltages up to 150 volts	1	max.	watt
For grid-No.2 & grid-No.4 voltages between 150 and 300 volts	*See Grid-No.2 Input Rating Chart at front of Receiving Tube Section*		
CATHODE CURRENT	14	max.	ma
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200	max.	volts
Heater positive with respect to cathode	200▲	max.	volts

Typical Operation as Sync Separator and Sync Clipper:

Plate Voltage	10	volts
Grid-No.2 & Grid-No.4 Voltage	30	volts
Grid-No.3 Voltage	0	volts
Grid-No.1 Voltage	0	volts
→ Plate Current	2.0	ma
→ Grid-No.2 & Grid-No.4 Current	4.5	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	0.47	max.	megohm
Grid-No.3-Circuit Resistance	2.2	max.	megohms

▲ The dc component must not exceed 100 volts.

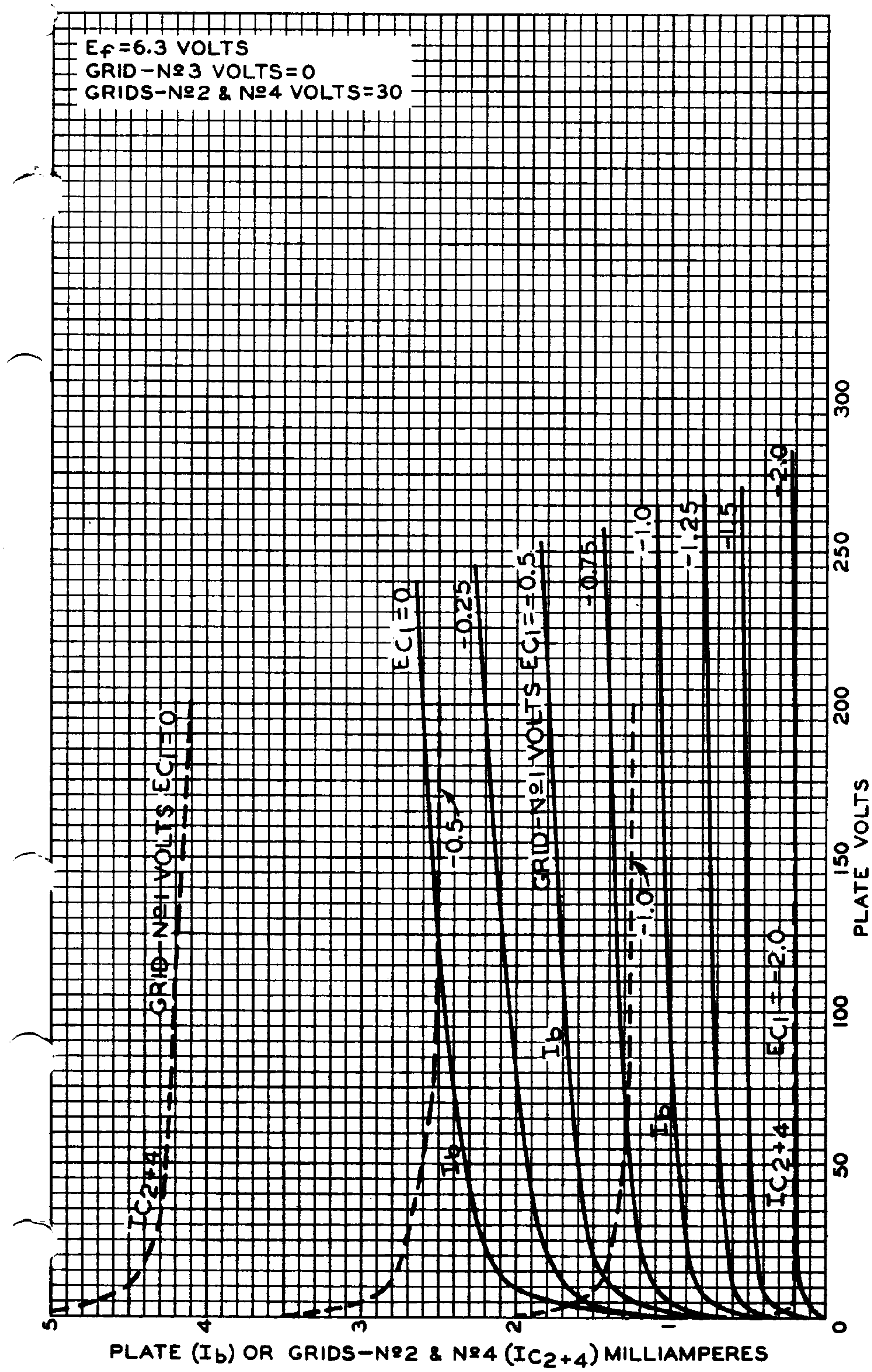
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AVERAGE CHARACTERISTICS



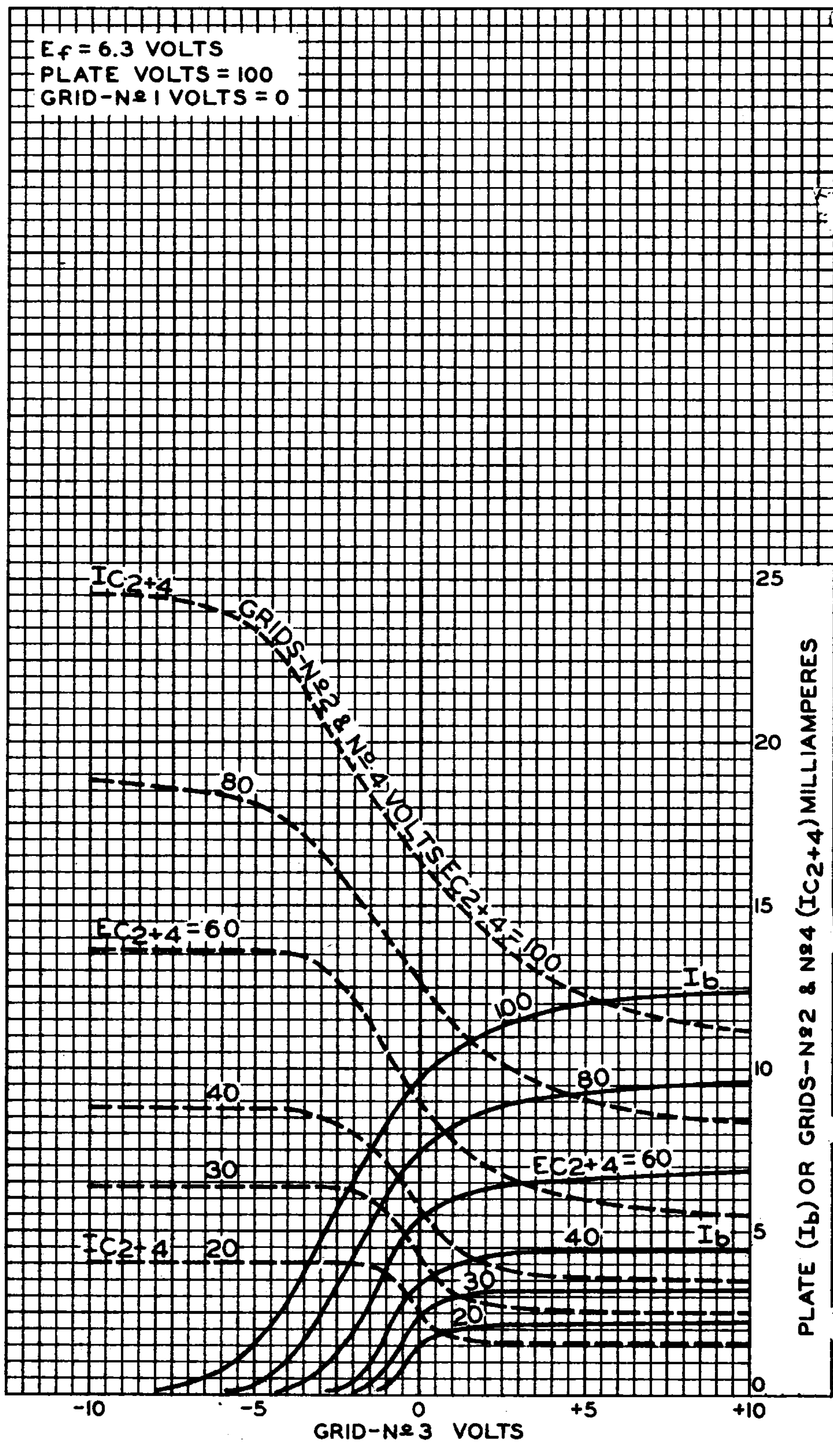
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AVERAGE CHARACTERISTICS



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